

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

- 1-2. (Cancelled).
3. (Currently Amended) Device comprising a burner for combustion of a fuel/oxidant mixture within a combustion chamber in which a material is provided which endures a maximum temperature, with one or several supply lines for the fuel as well as the oxidation agent, in order to conduct these into the combustion chamber, characterized in that said combustion device with combustion temperature of fuel/oxidant mixture above the maximum temperature is designed in that at least one additional supply line is ~~provided, by means of which an additional gas, specifically of~~ connected to a low combustion value, ~~can be supplied, whereby~~ gas supply, that allows the temperature during combustion ~~[[can]]~~ to be lowered to a value below the maximum temperature.
4. (Currently Amended) Device according to Claim 3, characterized in that ~~[[the]]~~ a combustion product from the combustion chamber is introduced, at least in part, via a supply line as additional gas, by means of which the temperature can be lowered during combustion.
5. (Original) Device according to Claim 3, characterized in that a pre-mix chamber is provided for the fuel/oxidant mixture, in which the fuel and the oxidant mixture can be mixed before combustion.
6. (Original) Device according to Claim 5, characterized in that the pre-mix chamber is designed in such manner that in direction towards the combustion chamber, the flow velocity component of the mixture is greater in the pre-mix chamber than the flame velocity in the combustion chamber.

7. (Original) Device according to Claim 5, characterized in that the pre-mix chamber is also supplied with additional gas by means of which the combustion temperature can be lowered, so as to mix same with the fuel/oxidant mixture, preferably by mixing with fuel or oxidant before the pre-mix chamber.

8. (Currently Amended) Device according to Claim 5, characterized in that the size of ~~[[the]]~~ a lateral surface[[s]] of a side wall of the pre-mix chamber in proportion to the volume of the pre-mix chamber is selected in such manner that the side wall is able to accommodate, ~~should the situation arise,~~ the free energy from detonation of gases in the pre-mix chamber.

9. (Original) Device according to Claim 5, characterized by cooling of the pre-mix chamber.

10. (Original) Device according to Claim 3, characterized in that there is provided in the combustion chamber a porous material with inter-connected hollow spaces suitable in size for flame development.

11. (Original) Device according to Claim 10, characterized by a porous material with inter-connected hollow spaces whose porosity changes over to larger pores in the direction toward the development of flame, with resulting critical Péclet number for the pore size at an inner border area, above which flame development takes place and below which flame development is suppressed.

12. (Original) Device according to Claim 11, characterized in that the combustion chamber has at least two zones with material of differing pore size, between which, pore size provides the critical Péclet number.

13. (Original) Device according to Claim 10, characterized in that the material with inter-connected hollow spaces presents, at least in part, bulk volume of bodies as they are utilized for systematic packings in thermal separation methods, such as spheres or shell bodies.

14. (Original) Device according to Claim 13 having a border area for zones of differing porosity comprised of a material of differing pore size, between which, pore size provides the critical Péclet number, characterized in that a grid is provided at the border area, like a grate in order to prevent discharge of the bodies from one zone into the other.

15. (Original) Device according to Claim 14, characterized in that the grid, in particular the grate is cooled.

16-20. (Cancelled).